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File: USPT

Jan 26, 1971

DOCUMENT-IDENTIFIER: US 3558005 A

TITLE: AERIAL CHEMICAL DISPENSER

**ABPL:**

An aerial chemical dispenser and method of dissemination comprising a dispensing means; a guidance system fixedly attached to the dispensing means; chemical material loaded within container means, said container means having a rupturable bottom and mounted by hanger means within the dispensing means; fallaway door means to rupture the dispensing means bottom; and reliable and reusable electrically activated explosive detent structure for initiating door fallaway.

**BSPR:**

Our invention relates to an aircraft mounted dispenser for rapid release aerial delivery of dry solid chemical material, the dispenser having a field assembled guidance system, reusable and reliable electrical explosive detents, and barrier means to avoid premature dissemination of the chemical material.

**BSPR:**

Still another object of our invention is to provide an apparatus and method for rapid aerial dispensing of dry solid chemical material which utilizes a field assembled guidance system and reusable and reliable electrical explosive detents.

**BSPR:**

A further object of our invention is to provide an apparatus and method for rapid aerial dispensing of dry solid chemical material which utilizes a field assembled guidance system and reusable and reliable electrical explosive detents and which utilizes barrier means to avoid premature dissemination of the dry chemical material and container breather means which enables safe shipping of noxious chemicals.

**BSPR:**

A still further object of our invention is to provide an apparatus and method for rapid aerial dispensing of dry solid chemical material which utilizes a field assembled guidance system, reusable and reliable electrical explosive detents, and barrier means to avoid premature dissemination of the dry chemical; the apparatus and method being effective, efficient, safe, and economical to operate and providing high and uniform ground chemical contamination.

**DEPR:**

Our apparatus shown generally at 1 in FIGS. 1 and 2 comprises a dispensing means 28, guidance system shown generally at 6 in FIG. 2, chemical material container 2, and electrical explosive detent assembly shown generally at 27 in FIGS. 7 and 8. To use and operate our apparatus, a conventional fiberboard container 2 is manufactured having one end open and the other end having a breather means 38 located in the container top 36, as shown in FIGS. 10 and 11. Breather means 38, as shown in FIG. 11, comprises a first nonmetallic 18.times.14 mesh screen means 40 superimposed on and adjacent to hole 39 centrally located in top 36, a first conventional filter paper means 41 superimposed on and adjacent to first screen means 40, a layer of conventional activated charcoal 42 superimposed on and adjacent to the first filter paper means, a second conventional filter paper means 41 superimposed on and adjacent to the activated charcoal layer 42, a second nonmetallic 18 .times.14 mesh screen means 40 superimposed on and adjacent to the second filter paper means, and conventional adhesive tape means 37 holding all of the breather means elements in place over hold 39. Container 2 is loaded